

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Thomas C. BUTASH                      Atty. Dkt. No: BA-00483  
Filed:            2/12/2001                                  Appl #:            09/780,348  
Issued:            1/24/2006                                  Patent No:        6,990,060  
For: POLYPHASE-DISCRETE FOURIER TRANSFORM (DFT) SUB-BAND DEFINITION  
FILTERING ARCHITECTURE

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR 1.323

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Patentee requests the above-referenced patent to be corrected to state the correct name of the assignee. In accordance with 37 CFR 3.81(b), Patentee states that the assignment was submitted for recordation as set forth in 37 CFR 3.11 before issuance of the patent. Patentee makes this request under 37 CFR 1.323 and thus authorizes the Commissioner to charge BAE Systems Deposit Account No. 190130 for the required fee set forth in 37 CFR 1.20(a). Patentee further authorizes the Commissioner to charge BAE Systems Deposit Account No. 190130 for the required processing fee set forth in 37 CFR 1.17(i).

Attached herein is Form PTO/SB/44. The Commissioner is authorized to charge the fees identified above, as well as any further fees necessary for issuance of a Certificate of Correction, to BAE Systems Deposit Account No. 190130.

Respectfully submitted,

/Daniel J. Long/

Daniel J. Long, Reg. No. 29,404

USPTO Customer No. 22500  
BAE Systems  
PO Box 868, NHQ01-719  
Nashua, NH 03061-0868  
Tel 603.885.2643  
Fax 603.885.2167

**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 6,990,060

APPLICATION NO.: 09/780,348

ISSUE DATE : 1/24/2006

INVENTOR(S) : Thomas C. BUTASH

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

On the title page, in section (73), please delete "BAE Systems" and insert therefor--BAE Systems Information and Electronic Systems Integration Inc.

## MAILING ADDRESS OF SENDER (Please do not use customer number below):

BAE Systems Information and Electronic Systems Integration Inc.  
PO Box 868, NHQ1-719  
Nashua, NH 03061-0868

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and, by the USPTO, to process) an application. Confidentiality is guaranteed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form as well as suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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BINGHAM MCCUTCHEN LLP  
DCIP DEPT

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 01, 2010

PTAS



103611963A

ROBERT C BERTIN  
BINGHAM MCCUTCHEN LLP  
2020 K STREET, N.W.  
WASHINGTON, DC 20006-1806

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF  
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE  
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA  
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD  
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY  
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
MAIL STOP: ASSTGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/24/2010

REEL/FRAME: 025314/0741

NUMBER OF PAGES: 5

BRIEF: CORRECTED ASSIGNMENT TO CORRECT THE ASSIGNEE NAME ON THE ORIGINAL  
ASSIGNMENT AND ORIGINAL COVER SHEET ON REEL 017411 AND FRAME 0995

ASSIGNOR:

BUTASH, THOMAS C.

DOC DATE: 04/09/2001

ASSIGNEE:

BAE SYSTEMS INFORMATION AND  
ELECTRONIC SYSTEMS INTEGRATION  
INC.  
P.O. BOX 868, NH001-719  
NASHUA, NEW HAMPSHIRE 03061-0868

461944-419944046  
VLR RLR

025314/0741 PAGE 2

APPLICATION NUMBER: 09780348

FILING DATE: 02/12/2001

PATENT NUMBER: 6990060

ISSUE DATE: 01/24/2006

TITLE: POLYPHASE-DISCRETE FOURIER TRANSFORM (DFT) SUB-BAND DEFINITION  
FILTERING ARCHITECTURE

KIMBERLY WHITE, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION



11-29-2010

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

11-24-1b

RECORDATION FOR  
**PATENT**



103611963

To the Director of the U.S. Patent and Trademark Office: Please record the attached continuation sheet(s) or other address(es) below.

**1. Name of conveying party(ies)**

BUTASH, Thomas C.

Additional name(s) of conveying party(ies) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) April 9, 2001

Assignment       Merger  
 Security Agreement       Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other. PLEASE SEE ATTACHED CORRECTION.

**4. Application or patent number(s):**

A. Patent Application No (s)

This document is being filed together with a new application

B. Patent No (s)

6,990,060

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name Robert C. Berlin

Internal Address Bingham McCutchen LLP

Street Address 2020 K Street, N.W.

City Washington

State DC Zip 20006-1806

Phone Number 202-373-6000

Fax Number 202-373-6001

Email Address r.berlin@bingham.com

**6. Total number of applications and patents involved:** 1 (one)

**7. Total fee (37 CFR 1.21(h) & 3.41)** \$ 40.00

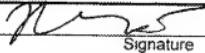
Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number 50-4047 (4199440001)

Authorized User Name Robert C. Berlin

**9. Signature:**

  
Signature

November 18, 2010

Date

Robert C. Berlin

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents

8

**Continuation Sheet**

2.      BAE Systems Information and Electronic Systems Integration Inc.  
P.O. Box 868, NHQ01-719  
Nashua, New Hampshire 03061-0868  
United States
  
- 3:          Other - Corrected assignment to correct assignee name on the original assignment and original cover sheet on Reel 017411 and Frame 0995.

Attorney Docket: 36762-170004  
(formerly 36762-162143)

ASSIGNMENT  
OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Thomas C. BUTASH of Centreville, Virginia hereinafter collectively referred to as the assignor, has invented a certain improvement relating to "POLYPHASE-DISCRETE FOURIER TRANSFORM (DFT) SUB-BAND DEFINITION FILTERING ARCHITECTURE" for which said assignor has caused an application for United States Letters Patent to be prepared,

[ ] the Assignors' declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[X] said application having been filed in the United States Patent and Trademark Office on February 12, 2001 Serial Number 09/780,348, Confirmation Number 8059;

[ ] was filed under the Patent Cooperation Treaty on \_\_\_\_\_, as International Application No. \_\_\_\_\_, the United States of America being designated, the U.S. national stage application having been filed on BAE Systems Information and Electronic Systems, Inc., P.O. Box 868, Nashua, NH 03061-0868

AND WHEREAS BAE SYSTEMS, 9300 Wellington Road, Manassas, Virginia 20110 hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any all divisions and continuations thereof, and the said invention and any all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

*VENARIE*  
WASHINGTON, D.C. 20005

274342v1

PATENT  
REEL: 017411 FRAME: 0996

Attorney Docket: 36762-170004  
(formerly 36762-162143)

ASSIGNMENT  
OF APPLICATION FOR UNITED STATES LETTERS PATENT

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 9<sup>th</sup> day of April, 2001.

Signature: Thomas C. Butash

Name : Thomas C. BUTASH

WITNESS:

Signature: Constance L Chapman

Name : Constance L. Chapman

Address : 9500 Edwin DRIVE

Manassas, VA 20110

VENABLE  
WASHINGTON, D.C. 20005

274347v1

PATENT  
REFI - 017411 FRAME - 0997



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 10, 2001

PTAS



\*101769206A\*

VENABLE  
RALPH P. ALBRECHT  
P.O. BOX 34385  
WASHINGTON, DC 20043-9998

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/25/2001

REEL/FRAME: 011939/0866  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
BUTASH, THOMAS C.

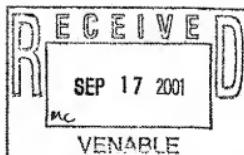
DOC DATE: 04/09/2001

ASSIGNEE:  
BAB SYSTEMS  
9300 WELLINGTON ROAD  
MANASSAS, VIRGINIA 20110

SERIAL NUMBER: 09780348  
PATENT NUMBER:

FILING DATE: 02/12/2001  
ISSUE DATE:

SHAREILL COLES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



Form PTO-1595  
(Rev. 10/02)  
OMB No. 0651-0027 (exp. 5/30/2005)

## REGISTRATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

## PATENTS ONLY

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Thomas C. BulsekAdditional name of conveying party(ies) attached?  Yes  No

## 3. Nature of conveyance:

Assignment       Merger  
 Security Agreement       Change of Name  
 Other: Correction of Previous Assignment

Execution Date: April 9, 2001

## 2. Name and address of receiving party(ies)

Name: BAE Systems Information and Electronic Warfare Systems  
Address: P.O Box 868  
NHQ-719  
Nashua, NH 03061-0868

Additional Name(s) & address(es) attached?  Yes  No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

6,990,060

Additional numbers attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: Edward A. Pennington, Esq.

Address: Bingham McCutchen LLP  
3000 K Street, NW  
Suite 300  
Washington, DC 20007-51166. Total number of applications and patents involved: 

7. Total fee (37 CFR 3.41) . . . . . \$ 40

 Enclosed Authorized to be charged to deposit account

## 8. Deposit account number:

19-5127, Order #19944-0048

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Sean P. O'Hanlon, RN 47252

Name of Person Signing

April 3, 2006

Date

Total number of pages including cover sheet, attachments, and documents:   
Mail documents to be recorded with required cover sheet information to:Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231PATENT  
DCC1 - 017441 FRAME - 0995

Attorney Docket: 36762-170004  
(formerly 36762-162143)

ASSIGNMENT  
OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Thomas C. BUTASH of Centreville, Virginia hereinafter collectively referred to as the assignor, has invented a certain improvement relating to "POLYPHASE-DISCRETE FOURIER TRANSFORM (DFT) SUB-BAND DEFINITION FILTERING ARCHITECTURE" for which said assignor has caused an application for United States Letters Patent to be prepared,

[ ] the Assignors' declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[X] said application having been filed in the United States Patent and Trademark Office on February 12, 2001 Serial Number 09/780,348, Confirmation Number 8059;

[ ] was filed under the Patent Cooperation Treaty on \_\_\_\_\_, as International Application No. \_\_\_\_\_, the United States of America being designated, the U.S. national stage application having been filed on

AND WHEREAS B&E SYSTEMS, 9300 Wellington Road, Marissa, Virginia 20119 hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; 868, NHQ-71  
b361-0368

NOW WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any all divisions and continuations thereof, and the said invention and any all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

**VENABLES**  
**WASHINGTON, D.C. 20005**

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**PATENT**  
**REEL: 017411 FRAME: 0996**

Attorney Docket: 36762-770004  
(formerly 36762-162143)

ASSIGNMENT  
OF APPLICATION FOR UNITED STATES LETTERS PATENT

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 9<sup>th</sup> day of April, 2001.

Signature: Thomas C. Butash  
Name : Thomas C. BUTASH

WITNESS:

Signature: Constance L Chapman  
Name : Constance L. Chapman  
Address : 9500 Edwin DRIVE  
Manassas, VA. 20110

VENABLE  
WASHINGTON, D.C. 20005

274342v1

PATENT  
RFFI - 017411 FRAME: 0997